KABACHNIK, M.I.; GILYAROV, V.A.

real sul residencia de se la compresencia de la francia de la francia de la francia de la 😝 de la francia de la francia de la francia de la 😝 de la francia della francia della francia de la franci

Imides of phosphorus acids. Report No.6: Trialkyl-M-acylimidophosphates. Izv.AN SSSR.Otd.khim.nauk no.5:819-823 My '61. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphoric acid)

KABACHNIK, M.I.; GILYAROV, V.A.; POPOV, Ye.M.

Imides of phosphorus acid. Report 7: Amideimidolic tautomerism of amides of pentavalent phosphorus acids. Izv.AN SSSR, Otd.khim.nauk no.6:1022-1030 Je 161. (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphosus acids) (Amides)

KABACHNIK, M.I.; TSVETKOV, Ye.N.

Dichlorides of p-styrylphosphinous and p-styrylphosphinic acids.

Izv.AN SSSR.otd.khim.nauk no.10:1896-1897 0 '61. (MIRA 14:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphinous acid) (Phosphinic acid)

- CONTROL OF THE PROPERTY OF T

5.3630

8/062/61/000/011/008/012 B103/B147

AUTHORS:

Kabachnik, M. I., Medved', T. Ya., Polikarpov, Yu. M., and

Yudina, K. S.

TITLE:

Synthesis of diphenyl-vinyl phosphine oxide

PERIODICAL:

Otdeleniye khimicheskikh Akademiya nauk SSSR. Izvestiya.

nauk, no. 11, 1961, 2029 - 2031

TEXT: The authors synthesized: (a) Diphenyl-vinyl phosphine oxide (melting point 116 - 117°C) and (b) tetraphenyl-ethylene-diphosphine dioxide (melting point 269 - 270°C):

(a) $c_6H_5PC1_2 \xrightarrow{A1C1_3} (c_6H_5)_2PC1 \xrightarrow{CH_2 CH_2} (c_6H_5)_2POCH_2CH_2C1$

 t° $(c_{6}H_{5})_{2}P(0)CH_{2}CH_{2}C1 \xrightarrow{HC1} (c_{6}H_{5})_{2}P(0)CH = CH_{2}.$

The first synthesis stage, the conversion of phenyl-dichloro phosphine Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

29521 S/062/61/000/011/008/012 B103/B147

Synthesis of diphenyl-vinyl phosphine...

to diphenyl-chloro phosphine was effected by catalytic disproportionation of the former in the presence of AlCl3 and constant distilling off of the PCl3 formed. The yield in diphenyl-chloro phosphine was 70%. This method is simple and gives easily reproducible results. Ditolyl-chloro-phosphine was obtained in the same manner (yield 65%). The second synthesis stage was achieved by passing a stream of ethylene oxide through diphenyl-chloro phosphine. The reactivity of the P-Cl bond is reduced owing to the introduction of two phenyl groups into the atom of the trivalent phosphorus PCl3 showed the most vigorous reaction with ethylene oxide; whereas phenyl-dichloro phosphine was somewhat less effective. The reaction with diphenyl-chloro phosphine is exothermic. It requires, however, heating at 60°C for 1 hr until it is completed. The third synthesis stage, the isomerization of the β -chloroethyl ester of diphenyl-phosphinous acid to diphenyl-β-chloroethyl phosphine oxide, does not take place smoothly Different quantities of both the final product mentioned and b): (C6H5)2P(0)CH2CH2P(0)(C6H5)2 are formed depending on the pressure used (atmospheric pressure or vacuum). Ethylene diphosphine derivatives were produced previously (M. I. Kabachnik, Izv. AN SSSR, Otd. khim. n. 1947, 631); the same holds for dioxides (M. I. Kabachnik, T. Ya. Medved', Yu. M. Card 2/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

およし、およけ、おもは1000年代。 High at the West Ellert # Mile # West Mile # West Mile # West Mile # Mil KABACHNIK, S/190/61/003/007/021/021 25277 B101/B230 15.8050 Tsetlin, B. L., Medved', T. Ya., Chikishev, Yu. G., Poli-karpov, Yu. M., Rafikov, S. R., Kabachnik, M. I. AUTHORS: Radiation polymerization of tertiary monovinylphosphise oxi-TITLE: Vysokomolekulynrnyye soyedineniya. v. 3. no. 7. 1961. PERIODICAL: 1117 - 1118 TEXT: This letter to the editor reports the synthesis of polymers on the basis of tertiary menovinylphosphine cyides (Ref. 1 M. I. Kabachnik, Dasis of tertiary menovinylphosphine cyides (Ref. 1 M. I. Kabachnik, Ta. Medved', Yu. M. Polikarpov, Dokl. AN SSSR. 135, 849, 1960; M. I. Ya. Medved', Yu. M. Polikarpov, Dokl. AN SSSR. 135, 601, 1960) Kabachnik, Chang Jung-yu. Ye. N. Tsvetkov, Dokl. AN SSSR, 135, 601, 1960) to be of Great importance due to the high thermal and observed stability to be of Great importance due to the high thermal and observed stability of phosphine oxides. Experiments to polymerize such montmers by applying institutors of the radical polymerization (benzov) peroxide, accisabutyric initiators of the radical polymerization (benzoyl percente, accisobutyric initiators of the radical polymerization (benzoy) permise, accidently acid dinitrile) failed to produce natiofactory results. Oxides of the tertiary dually: and dimethally phosphines were, in the presence of Card 1/3

1251 (542 HTRAY 500) 1:150 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | 1:50 | \$/190/61/003/007/021/021 B101/B230 Radiation polymerization of . . this type of intrinters, either not polymerized at all, or their polymerization priceeded at an extremely low rate with very poor yield (Ref. 2, see below). Authors conducted experiments to initiate polymerization of diethylvinylphosphine exide (I) and diphenylvinylphosphine exide (II) by radiation. As source of radiation an X-ray irradiation apparatis was used. Samples were exposed to irradiation in wolten state in vacuum. In irradiation of (I) the lose rate was 4-5-10 6 ev/ml.sec at an irradiation time of 30 hr at 70°C. ha a product, a solid polymer was obtained having a molecular wright of 133,000 (the monomer was distilled off under vacuum). Degree of conversion amounted to ~80 %, radiation yield G of the polymerization was ~80 molecules of the monomer per 100 ev. The polymer is well aclubic in water, ethanol, and benzene. In irradiation of (II), the dose rate was 4-1015 ev/mf.sec for a time of 50 hr at 1300C. A polymer was obtained having a molecular weight of ~30,000; degree of conversion ~60 %, radiation yield ~350 molecules per 100 ev. The polymer is soluble in ethanol and benzene when hunted, and may be precipitated from alcohol by adding a small quantity of water. Vitrification temperature of the Card 2/3

Radiation polymerization of....

S/190/61/003/007/021/021

Radiation polymerization of....

reprecipitated polymer (II) is about 180°C (determined by thermomechanical reprecipitated polymer (II) value of the provention of the basis of ordies of monoring/heaphines. Nechanism of the provess on the basis of ordies of monoring/heaphines. Nechanism of the provess on the basis of ordies of monoring/heaphines. Nechanism of the provess on the basis of ordies of monoring/heaphines. Nechanism of the provess on the basis of ordies of monoring/heaphines. Soviet-bloc and 1 non-Soviet-bloc. The ref-There are 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The ref-There are 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The ref-There are 3 references: 2 Soviet-bloc and 1 non-Soviet-bloc. The ref-There are 3 butler, 1, Org. Chem. 21, 2006, 1960; K. D. Berlin, G. B. Butler, J. Amer. Chem. Soc., 82, 2712, 1960

SUEMITTED: February 23, 1961

POPOV, Ye.M.; KABACHNIK, M.I.; MAYANTS, L.S.

Vibration spectra of organophosphorus compounds. Usp.khim. 30 nd.7:846-876 Jl '61. (MIRA 14:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorus organic compounds—Spectra)

KABACHNIK, M.I.; TSVETKOV, Ya.N.

Esters of cyclopentadienyl-, 1-indenyl-, and 9-fluorophenylphosphinous acids. Zhur.ob.khim. 30 no.10:3227-3233 0 '61. (MIRA 14:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphinous acid)

KARACHNIK, M.I.; MASTRYUKOVA, T.A.; BALUYEVA, G.A.; KUGUCHEVA, Ye.Ye.;
Shipov, A.E.; MELENT'HEVA, T.A.

Application of the farmett equation to dithio phosphorus acids. Zhur.
ob. khim. 31 no.1:140-145 Ja '61.

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.

(Phosphorus acids)

89514

8/079/61/031/002/007/019 B118/B208

5.3630

Mastryukova, T. A., Shipov, A. E., and Kabachnik, M. I.

AUTHORS:

Method of synthesizing dialkyl dithiophosphinic acids

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 2, 1961, 507-512

TEXT: In view of Refs. 1-3, the authors synthesized dialkyl dithiophosphinic acids by reaction of dialkyl thiophosphites with alkyl magnesium halides, connected with sulfur addition:

 $(P0)_2P(S)H \xrightarrow{R^1MgX} (R^1_2PSMgX) \xrightarrow{S} (R^1_2PSSMgX) \xrightarrow{H+} R^1_2PSSH (Ref. 4).$

The reactions of diethyl thiophosphite with butyl magnesium bromide, with sulfur addition, gave, however, tetrabutyl dithiodiphosphyl $(c_4H_9)_2P(S)P(S)(c_4H_9)_2$ which also results from the sodium salt of the phosphite. Potassium dibutyl thiophosphite reacts with the Grignard reagent to give a mixture of tetraalkyl dithiodiphosphyl and dialkyl dithiophosphinic acid in low yield. The authors devised a method of synthesizing dialkyl di-

Card 1/2

89523

B/079/61/031/002/019/019 B118/B208

15.8114

AUTHORS:

and Tsvetkov, Ye. N. Kabachnik, M. I.

Polycondensation according to A. Ye. Arbuzov's reaction

TITLE:

Zhurnal obshchey khimii, v. 31, no. 2, 1961, 684-685

TEXT: The regrouping of acid esters of trivalent phosphorus: in compounds of pentavalent phosphorus by reaction with halogen derivatives according to Arbuzov (Ref. 1) can be used for the synthesis of organophosphorus polymers. For this purpose, the functions of the acid ester of trivalent phosphorus, and of the alkyl halide, have to be combined in the monomer molecule. The polycondensation process may, thus, be expressed by the following equation:

 $-R-P-OR' \longrightarrow (n-1)R'Hal + Hal$

Such a reaction was first observed by P. A. Rossiyskaya in the isomerization of tri-β-chloro-ethyl phosphite (Ref. 2); but, at that time, the polymeric organophosphorus compounds were regarded as by-products, and their synthesis

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

Polycondensation according ...

S/079/61/031/002/019/019 B118/B20B

was, therefore, not studied. The authors of the present paper synthesized p-chloro-methyl-phenyl-dichloro phosphine (I), the initial product for synthesizing the esters of p-chloro-methyl-phenyl phosphinous acid (II), which form polymers when heated in vacuo between 90° and 120°C, according to Arbuzov's equation of regrouping (Reaction Scheme)

**CH₃C₆H₄PCl₂ Cl₂ (R-ClCH₄C₆H₄PCl₄ CH₄OPCl₄ CH₄OPC

-RCI CI -CH₂C₆H₄P - CH₂C₆H₄P(OR)₃

p-Tolyl-dichloro-phosphine in chloro benzene is converted to the corresponding tetrachloride by reaction with chlorine which gave, on further chlorination (in ultraviolet light at $80-90^{\circ}$ C), and subsequent reduction with methyl dichloro phosphite (Ref. 3), p-chloro-methyl-phenyl-dichloro phosphine (I). This compound (I) was converted to the di-(β -chloro-ethyl) ester of p-chloro-methyl-phenyl phosphinous acid (II, R = CH₂CH₃Cl) by reaction with ethylene oxide, when heated (90-120°C) for 20 hr in vacuo, the resultant

Card 2/3

١

GODOVIKOV, N.N.; KABACHNIK, M.I. Substituting sulfur for oxygen in organophosphorus compounds. Zhur. ob.khim. 31 no.5:1628-1631 My 161. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorus organic compounds)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1" KABACHNIK, M.A.; IOFFE, S.T.; POPOV, Ye.M.; VATSURO, K.V.

Trans-enolization. Part 1: Effect of solvents on the enolization of trans-fixed keto enols. Zhur.ob.khim. 31 no.7:2122-2131 J1 '61.

1. Institut elementoorganicheskikh soyedinemiy AN SSSR.

(Ketone) (Isomerism)

KABACHNIK, M.I.; IOFFE, S.T.; POPOV, Ye.M.; VATSURO, K.V.

to the second

Transenolization. Part 2: Effect of solvents on the transenolization of 0 -elkylacetoacetic esters. Zhur.ob.khim. 31 no.8:2682-2692 Ag '61. (MIRA 14:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Acetoacetic acid) (Isomerization)

NENITSESKU, Kostina [Nenitescu, Costin D.], prof. akademik;

BYRLEDYANU, L.[Birladeami, L., translator]; KABACHNIK, M.I.,

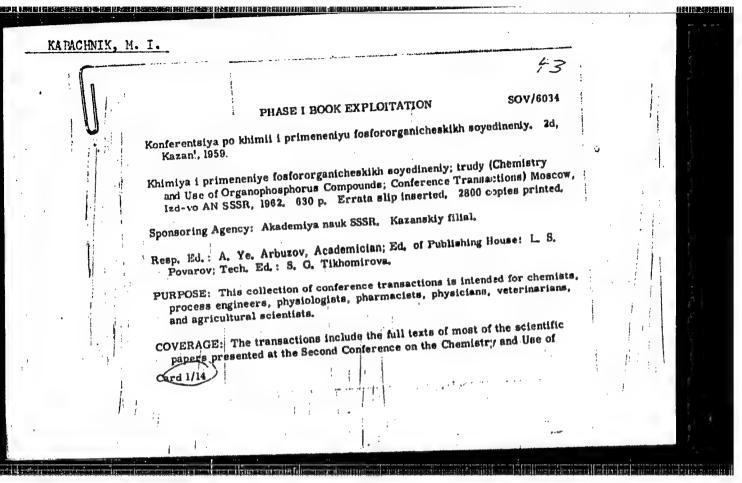
akademik, red.; GAZIYEVA, G.B., red.; ICTAFENKOVA, Ye.S.,

tekhn. red.

[Organic chemistry]Organicheskaia khimiia. Moskva, Isd-vo inostr. lit-ry. Vol.1. 1962. 863 p. Translated from the Rumenian. (MIFA 15:10)

1. Prezident otdela khimicheskikh nauk Akademii Aumynakov narodnov respubliki i Bukharestskiy politekhnicheskiy institut (for Nenitsesku). (Chemistry, Organic)

HERNIAL RESIDENT TO THE STATE OF THE STATE O			VISTREASTRATE
KABACHNIK, M.I.		Cr Y	
ti + Ac l −y or Defence of the V C.D.d. Carab are to			
THE OF THE THE ALCOHOLD BE OF THE COMPROSITE CONTROL F			1 .
[Kalatja i let. node Fosforos-anicheskikh Joeliseati]			
The most time of the GMC-W Conference for moving $0.00000000000000000000000000000000000$			
Academy of Selected of the J.J.J.S. Publishing Homes			6
tisano, 17-2			C 20
Units book in a collection of a system inject property at the Indu Early 1901 and on the Union's Region selection in the Photo or shell dry mode as all property of a contract.			
TANK OF COURTS	F (0) *		
1. IMPRODUCTORY SIGNAL. A. G. Artendev	<i>:</i>		
C. STREAM IN THE LITERATURE C. THE CONTINUE OF CHECKING COME ON A APPLICATION OF THE LITERATURE OF CHECKING COME ON A COME ON A COME OF THE LITERATURE OF TH	5 (4 (3)		
	111111111111111111111111111111111111111		



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

		·		
	viaer e	and the second s	43	
	•;	Chemistry and the Use of Organophosphorus (Cor	sov/6034	
		Organophosphorus Compounds held at Kazan' The material is divided into three sections: C cles; Physiological Activity of Organophospho articles; and Plant Protection, containing 12 a the strong interest of Soviet scientists in the organophosphorus compounds. References ac Short summaries of some of the listed report below. TABLE OF CONTENTS:[Abridged]:	from 2 Nov through 1 Dec 1959 Themistry, containing 67 arti- rus Compounds, containing 26 rticles. The reports reflect Themistry and application of Geompany Individual reports.	1
•	.•	Introduction (Academician A. Ye. Arbuzov)	3 :	
	4	TRANSACTIONS OF THE CHE	MISTRY SECTION	
	· · · · · · · · · · · · · · · · · · ·	Gefter, Ye. L. [NII plastmass (Scientific Resea Moscow). Some Prospects for the Industrial Ut Compounds	rch Institute of Plastics, se of Organophosphorus	
		Card 2/14		1
	·		t det	

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

Chemistry and the Use of Organophosphorus (Cont.)

्रात् । स्टारम्भारक स्टारम्बन्धाम <mark>वास्ताम स्टार</mark>्थ सामान्त्र स्टारम् । स्टारम् स्टारम् स्टारम् स्टारम् । स्टारम्

•

SOV/6034

263

279

Andreyeva, M. A., I. A. Gribova, M. I. Kabachnik, G. S. Kolesnikov, V. V. Korshak, T. Ya. Medved', Yu. M. Polikarpov, Ye. F. Rodionova, and L. S. Fedorova [Institute of Organoelemental Compounds]. Some Methods of Synthesis of New Organophosphorus Monomers and Polymers This study attempts to develop new methods of synthesis of organophosphorus monomers and polymers for obtaining high-molecular fireproof materials. The authors synthesized vinyl compounds of pentavalent phosphorus and studied their properties, as well as those of the polymers obtained.

Moshkin, P. A., Ye. L. Gefter, and I. K. Rubtsova [Scientific Research Institute of Plastics]. Study of the Synthesis and Uses of Some Organophosphorus Compounds in the Plastics Industry

Industrial methods for the preparation of esters of phosphoric acid and for testing qualities of these acids as plasticizers have been developed, along with methods for obtaining phosphorus-containing monomers for use in polymerization, copolymerization, and polycondensation reactions. Polyesters based on dichlorides of

Card 6/14

THE REPORT OF THE PROPERTY OF

KABACHNIK, M.I., BALUYEVA, G.A.

Basicity of phosphines and the Hammett equation. Izv.AN SSSR.Otd.khim.nauk no.3:536-537 Mr '62. (MIRA 15:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphine) (Hammett equation)

S/062/62/000/009/006/009 B119/B186

AUTHORS:

Kabachnik, M. I., Medved', T. Ya., Polikarpov, Yu. M., and

Yudina K. S.

TITLE:

Reactions of vinyl diphenyl phosphine oxide

PERIODICAL:

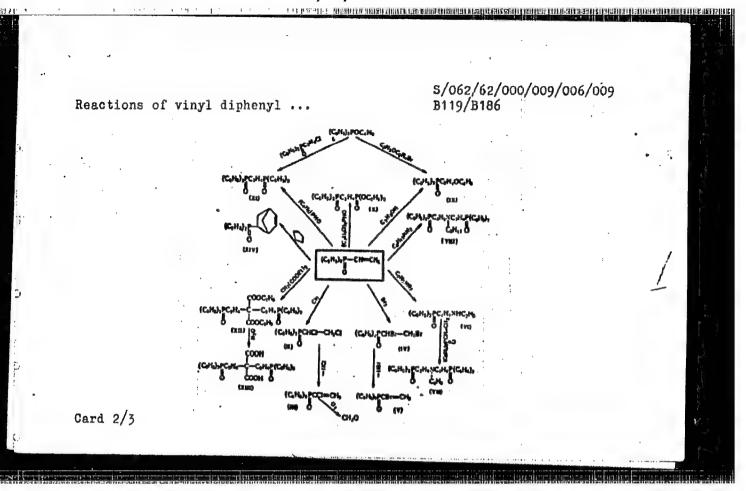
Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 9, 1962, 1584 - 1589

TEXT: Thirteen compounds were obtained from vinyl diphenyl phosphine oxide by reactions according to the following scheme:

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"



"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1 [6]建制力表示对自由处理的保险。而不完任医社经医院的保护系统,但是这个企业,但是是一个企业的企业,但是一个企业的企业,但是一个企业的企业。 s/204/62/002/004/019/019 E075/E436 - Kabachnik, M.I., Gefter, Ye.L., Moshkin, P.A., 11. 4200 5.3630 Phosphororganic monomers. Review paper AUTHORS: PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 639-651 The area of phosphororganic monomers reviewed is that of β-chlorethyl and vinyl derivatives of phosphorous which is thought TITLE: to have a large potential for the production of high melting, non-inflammable polymers. An important monomer in this area is dichloroanhydride of vinylphosphorous acid obtainable in four steps 3C2H40 + PCl3 P(OCH2-CH2-Cl)3 (I) gives a product, which is of value in itself (fuel additive, plasticizer) and which can be from ethylene oxide and PCl3. isomerized to give ClCH2CH2P(OCH2CH2Cl)2 (II) as discovered by The isomerization of (I) is more or less difficult depending on the groups attached to P. For example, it proceeds easily at room temperature for (R2N) 2POC 2H4C1, but It proceeds easily at room temperature for the isomerization long heating at 160 to 170°C is necessary for the isomerization M.I.Kabachnik. Card 1/3

> APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

Phosphororganic monomers .

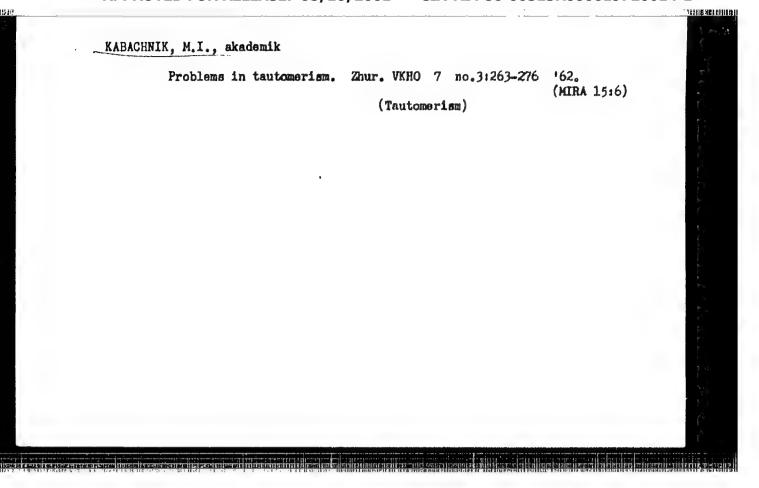
S/204/62/002/004/019/019 E075/E436

until recently the only available method for their preparation. The phosphines polymerize easily by ionic or radical mechanism. At the present time the polymerization of vinyldiethyl and vinyldiphenylphosphines is being investigated under the action of X-ray and chemical initiators. In general; the vinyl-phosphorous compounds can polymerize, copolymerize and, depending on their specific structure, can condense and form polyesters. Thus di β,β' -chloroethyl ester of vinylphosphorous acid undergoes polycondensation at 210 to 240°C and polymerizes in the presence of initiators forming a three dimensional polymer. There are 44 references.

ASSOCIATION: Institut elementoorganicheskikh soedineniy AN SSSR (Institute of Elemental-organic Compounds AS USSR)

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

S/074/62/031/003/001/002 B117/B101

AUTHORS:

Gefter, Ye. L., and Kabachnik, M. I.

TITLE:

Organophosphorus compounds derived from cyclic oxides

PERIODICAL:

Uspekhi khimii, v. 31, no. 3, 1962, 285-321

TEXT: This is a survey of the progress achieved in the chemistry of organophosphorus compounds. It deals with research work in which reactions of cyclic oxides with some phosphoric compounds, properties, conversions, and possibilities of application of resulting reaction products were studied. Summarizing, it is stated that the addition of phosphoric compounds to α -oxides provides a simple, easy and cheap method for the synthesis of various organophosphorus compounds. Thus compounds containing β -alkyl halide- and hydroxyl groups, α - and β -unsaturated radicals at the phosphorus atom, and active epoxy- and ethylenimine rings, can be prepared quite easily and with high yields. A large number of such organophosphorus compounds are being used in national economy. Probably, their field of application will further increase since there are still wide possibilities of synthetizing new compounds. Mention is made of:

Card 1/2

engan berkantang panggangan berkantang kapadang kanggan penggang pangan ang saggan penggan ang pangkan pangkan berkang kanggang

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.

Gonjugation in the systems having a tetrahedral atom. Diarylphosphinic acids. Zhur. ob. khim. 32 no.1:267-272 Ja '62. (MIRA 15:2) (Phosphinic acid)

esperationes opposition in violes in contract programme and a contract programme in the contract contr

KABACHNIK, M.I.; GILYAROV, V.A.; POPOV, Ye.M.

Tautomerism of phosphamidines. Zhur.ob.khim. 32 no.5:1598-1604, My 162. (MIRA 15:5)

1. Institut elementoorganicheskikh soyedinaniy AN SSSR. (Phosphorus acids) (Amidines) (Tautomerism)

8/079/62/032/010/005/008 D204/D307

AUTHORS:

Kabachnik, M.I., Tsvetkov, Ye.N., and Chang, Jung-Yil

TITLE:

Reactivity of the vinyl group and the direction of addition in the reactions of secondary amines with the vinyl compounds of tri- and pentavalent phosphorus

PERIODICAL:

Card 1/3

Zhurnal obshchey khimii, v. 32, no. 10, 1962; 3340 - 3350

The addition reactions of piperidine and diethylamine to $CH_2 = CH - P(C_4H_9)_2$ (I), $CH_2 = CH - P(OC_4H_9)_2$ (II), $CH_2 = CH - P(O)$. .H.OC₄H₉ (III), $CH_2 = CH - P(0)(C_4H_9)_2$. (IV) and $CH_2 = CH - P(0).CH_3$. .C4H9 (VI) were studied in an effort to clarify the influence of the P-containing groups on the double bond of the vinyl group. The readiness with which the vinyl compounds reacted with the amines was readiness with which the vinyl compounds reacted with the amines was in the order III > VI > IV > II > I; thus III reacted exothermically when mixed with pyridine in the presence of hydroquinone, whilst I required heating to 145 - 160°C in a sealed tube, for 19 hrs., in

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619720014-1"

s/079/62/032/010/005/008 D204/D307

Reactivity of the vinyl group and ...

the presence of a catalyst. It was shown that the addition followed Markovnikov's rule in all cases, i.e. the N-atom of piperidine bonded on to the β -carbon of the vinyl group. In pentavalent P compounds the observed direction of addition is ascribed to R_2NH+CH_2 = CH = P = 0 \rightarrow R₂NCH₂CH₂ - P = 0, or the formation of a cyclic

transition complex:

For the β -addition of secondary amines to trivalent P compounds, the following possibilities are presented: (a) polarization of the C = C bond by a weak inductive effect directed towards the phosphorus: $CH_2 = CH \rightarrow P <$, (b) in the case of I, which only reacts in the presence of piperidine hydrochloride, the formation of a salt, Card 2/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

8/079/62/032/010/006/008 D204/D307

AUTHORS:

Kabachnik, M.I., Chang, Jung-Yu, and Tsvetkov, Ye.N.

TITLE:

The esters of unsaturated phosphinous acids

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 10, 1962,

3351 - 3360

TEXT: The above class of compounds was studied in view of its potential applications to synthesis. Esters of the vinyl-, ethinyl-, allyl-, p-styryl- and of vinyl phenyl phosphinous acids RP(OR')2,

were prepared by the reaction of Grignard reagents RMgX with ClP (OR'), at -60°C, in the presence of pyridine. The butyl esters of

vinyl, -methyl vinyl, - ethyl vinyl, - butyl vinyl, - allyl vinyl, - and diallyl phosphinic acids were prepared by the Arbuzov rearrangement of the corresponding butyl phosphinites, using high boiling alkyl halides. The reactions were carried out in toluene, at atmospheric pressure. Vinyl, allyl, and vinyl phenyl - phosphinous esters were readily oxidized, with activated MnO,, to CH, = CHP(0)

Card 1/2

perated by the hydrolysis of its ester, owing to polymerization.

CH2 = CHP(OBu), reacted with Cl2 to give CH2 = CHP -OBu and ente-

red interception Referes: 108/c10/2001th CIA RDP86-0651380006D9720014-1
The corresponding monobutyl ester polymerized readily on heating (100°C, 5 hrs.) and in the presence of initiators.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

July 28, 1961

Card 2/2

MASTRYUKOVA, T.A.; SHIPOV, A.E.; KABACHNIK, H.I.

Dimethylphosphinothioic and dimethylphosphinodithioic acids and their derivatives. Zhur.ob.khim. 32 no.11:3579-3582

N '62.

(Phosphinothioic acid) (Phosphinodithoic acid)

(Phosphinodithoic acid)

KABACHNIK, M.I., akademik; TSVETKOV, Ye.N.

"Pseudoallyl" rearrangements of tri-(chloromethyl)-phosphine.

Dokl. AN SSSR 143 no.3:592-595 Mr '62. (MIRA 15:3)

1: Institut elementoorganicheskikh soyedineniy AN·SSSR. (Phosphine) (Radicals (Chemistry))

KABACHNIK, M. I.; GEFTER, Ye. L.; MOSHKIN, P. A.; MEDVED¹, T. Ya.

Organophosphorus monomers. Neftekhimia 2 no.4:639-651 J1-Ag¹62.

(MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

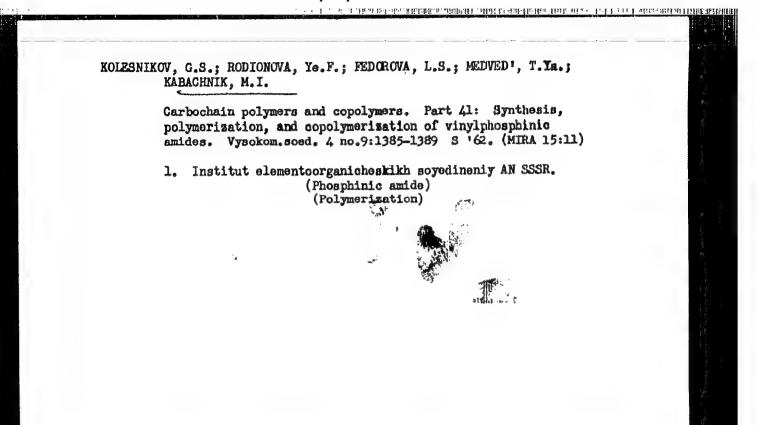
(Phosphorus organic compounds)

POLICIO DE CONTROL DE PROPRIO DE PROPRIO DE SER EN ENGACION DE SER ENGACION DE CONTROL D

IOFFE, S.T.; POPOV, Ye.M.; VATSURO, K.V.; TULIKOVA, Ye.K.; KARACHNIK, M.I., akademik

Keto cis-trans-enol equilibrium of 3-alkylacetylacetones. Dokl. AN SSSR 144 no.4:802-805 Je 162. (MIRA 15:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Acetone) (Isomerization)



Crientation of the addition and the reactivity of a vinyl group in the reactions of secondary amines with vinyl compounds of tri- and pentavalent phosphorus. Zhur.ob.khim.

32 no.10:3340-3350 0 162.

(Phosphorus organic compounds)

(Amines)

(Vinyl compounds)

KABACHNIK, M.I., GEFTER, YE.L., MOSHKIN, P.A.

Phosphor organic monomers.

Report submitted for the 12th Conference on high molecular weight, cOmpounds devoted to monomers, Baku, 3-7 April 62

र्कते अधिवादिको मान्नितिको स्था भवतो । स्थानिका स्थानिक स्थानिक । स्थानिक । स्थानिक । स्थानिक । स्थानिक । स्थानिक ।

MEDVED', T.YA., KARACHNIK, M.I., MOSHKIN, P.A., VARSHAVSKIY, S.L. KOFMAN, L.P., GEFTER, YE.L., TKACHENKO, G.V., DANILEVICH, A.A.

Industrial method of synthesis of di-B,B chlor-ethyl of winyl-phosphinic acid from ethylene oxide and phosphorus trichloride.

Report submitted for the 12th Conference on high molecular weight compounds devoted to monomers, Baku, 3-7 April 62

KABACHNIK, M.I.; MEDVED', T.Ya.; POLIKARPOV, Yu.M.; YUDINA, K.S.

Reactions of vinyldiphenylophosphine oxide. Izv.AN SSSR.Otd.khim. nauk no.9:1584-1589 S '62. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphine oxide)

TO THE CONTROL OF THE PROPERTY OF THE PROPERTY

KABACHNIK, M.I.; GILYAHOV, V.A.; CHZHAN CHZHEN-DE[Chand Chang-tieh]; MATROSOV, Ye.I.

Problem of tautomerism of N-acylamidophosphates and N-acylamidophosphinates. Izv.AN SSSR.Otd.khim.nauk no.9:1589-1599 S '62. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedinemiy AN SSSR. (Phosphoramidic acid) (Phosphinamidic acid) (Tautomerism)

Synthesis of methylemediphosphine oxide. Ixv. AN SSSR. Otd.khim. nauk no.11:2103-2104 N 162. (MIRA 15:12)

1. Institut elementoorganicheskikh soyedineniya AN SSSR. (Mphosphine)

To the profit of the first of t

SHUSTOROVICH, Yevgeniy Meyerovich; KABACHNIK, M.I., akademik, otv. red.; BIYUMENFEL'D, L.A., doktor khim. nauk, otv. red.; KORDYUKOVA, S.A., red.; TARASENKO, V.M., red.izd-va; SUSHKOVA, L.A., tekhn. red.

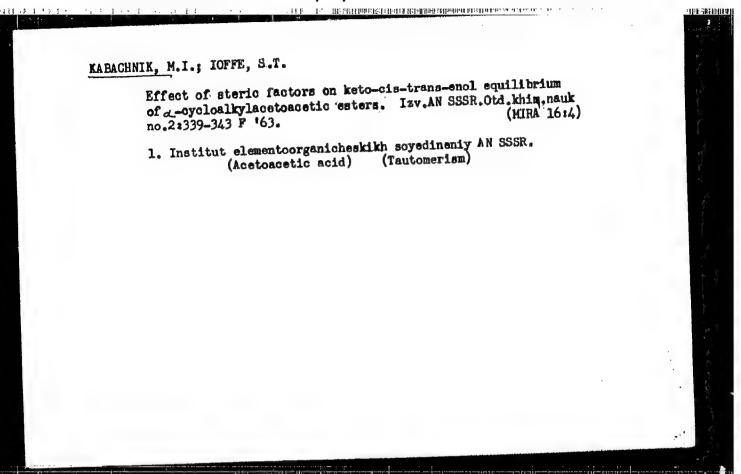
[Nature of chemical bonds] Priroda khimicheskoi sviazi. Moskva, Izd-vo AN SSSR, 1963. 134 p. (MINA 16:12) (Chemical bonds)

· 大学工程程,《图》中的主题和编码的编码的编码的图像是《科学中的概念》中的是《科学》中,并不是"科学和工程"的主题。在《科学》中,

KOLESNIKOV, G.S.; RODIONOVA, Yo.F.; FEDOROVA, L.S.; MEDVED', T.Ya.; KABACHNIK, M.I.

Carbochain polymers and copolymers. Part 43: Synthesis, polymerization, and copolymerization of aromatic esters of vinylphosphinic and d-chlorovinylphosphinic acids. Vysokom. soed. 5 no.1:32-38 Ja 163. (HIRA 16:1)

1. Institut elementoorganicheskikh soyedineniy AM SSSR. (Phosphinic acid) (Polymerization)



The state of the control of the companies of the control of the state of the first of the control of the present of the control of the contro

MEDVED', T.Ya.; FRUNZE, T.M.; KHU CHIN-MEY; KURASHEV, V.V.; KORSHAK, V.V.; KABACHNIK, M.I.

Organophosphorus polyamides based on methyldi-(w.aminophenyl)phosphine oxide. Vysokom.soed. 5 no.9:1309-1314 S 163. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy $\ensuremath{\mathsf{AN}}\xspace$ SSSR.

KABACHNIK, M.I.; TSVETKOV, Ye.N.

Lover dialkyl phosphinous acids (exides of secondary phosphines)
and some of their properties. Izv. AN SSSR. Ser.khim. no.7:1227and some of their properties. Izv. AN SSSR. Ser.khim. no.7:12271232 J1 163.

1. Institut elementorganicheskikh soyedineniy AN SSSR.

(Phosphinous acid)

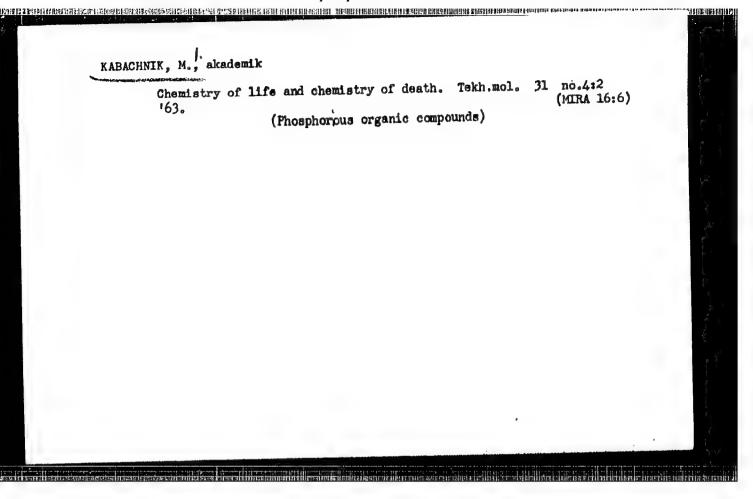
MASTRYUKOVA, T.A.; SAKHAROVA, T.B.; KABACHNIK, M.I.

Thin-layer chromatography of organothiophosphorus compounds. Izv. AN SSSR. Ser. khim. no.12:2211-2213 D 163. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

KABAGINIK, M.I. [Kabachnik, M.I.]; CHEFTER, E.L.; MCSKIN, P.A. [Moshkin,]; INDVED, T.I. [Medved', T.Ya.]

Organophosphoric monomers. Analele chimie 18 no.3;62-76 Jl-S '63.



ACCESSION NR: AT4033994

8/0000/63/000/000/0117/0122

AUTHOR: Korshak, V.V.; Gribova, I.A.; Andreyeva, M.A.; Kabachnik, M.I.; Medved', T. Ya.

TITLE: Polymers containing phosphorus. XXIX. Heterocyclic polyesters of vinly-phosphinic acid and some glycols

SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain macro-molecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 117-122

TOPIC TAGS: vinylphosphinic acid, ethylene glycol, propylene glycol, diethylene glycol, trimethylene glycol, butylene glycol, polymer, cyclic polyester, polymerization, polymerization catalyst, metallic sodium, linear polymerization, radical polymerization, benzoyl peroxide, tert.-butyl peroxide, tert.-butyl hydroperoxide

ABSTRACT: The authors synthesized the cyclic esters of vinylphosphinic acid (I) and ethylene glycol (II), 1,2-propylene glycol (III), trimethylene glycol (IV), 1,4-butylene glycol (V) or diethylene glycol (VI) and determined some of their physicochemical properties (see Table 1 in the Enclosure). Those esters were then polymerized linearly in the presence of water (3% by weight, 140C, from 15 hours for III to 83 hours for VI).

Card 1/3

ACCESSION NR: AT4033994

Yields ranged from 23.2% for VI to 88.6% for II, indicaring that penta-cyclic esters are the most suitable. Structural modification of the synthesized polyesters was then attempted by the use of radical polymerization catalysts (benzoyl peroxide, tert. -butyl attempted by the use of radical polymerization cathlysis (bolizo); peroxide, tert.—butyl hydroperoxide and metallic Na; 0.5 to 3.0% by weight, 55-90C, peroxide, tert.—butyl hydroperoxide and metallic Na; 0.5 to 3.0% by weight, 55-90C, 10-51 hours). The polymers obtained were solids or similar to factice rubbor with softening temperatures of 180-250C. "G. M. Popova and G. F. Dmitriyeva took part in the experimental part of the work." Orig. art. has: 2 graphs, 4 tables and 1 chemical equation.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Metalloorganic Compounds AN 888R)

SUBMITTED: 31Jul62

DATE ACQ: 30Apr64

BNCL: 01

SUB CODE: OC

NO REF SOV: 005

OTHER: 000

2/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

			inke je ko	monit ==										dh in hi
ì	ACCESSION NR: A	T4033994	lic est	ters of vinylp		hosphinic a		H, %		LOSURE: 01		:	The second secon	
	Chemical formula	B.P., *C/mm	20 ⁿ D	20 d ₄	Found	Calcu- lated	Found	Cal- cula- ted	Found	Calcu- lated	Found	Calcu- lated	Yield %	
	I. CH. CHP OCH.	127/4	1,4701	1,3068	28,63	25,87	35,5 25,5	35,6	II '''	, 5,3	20,6 20,6	23,1	65	
	II. CH. CH. COH. CH.	113—114/3			33,59 33,32		40,6 40,7 40,6 40,5	40,6	6,2 6,2 6,4 6,3	6,2	20,4 20,5 20,4 20,4	20,9	53 53	
1.	IV, ch, -ch con, ch,	120/3	1,479			38,11	44,6 44,8	1	II	1	17.5 17.4	17,4	47	
	Card 3/3	т. жил. 0112—116/3 т. ян. 57—58°					40,4	40,4	6,2		17,4	- superior 1		
	Card 5/5		ir.	THE REST					-14					many of street

KABACHNIK, M. I.; MASTRYUKOVA, T. A.; SHIPOV, A. E.

Reaction of phosphite amides and phosphinite amides with acid anhydrides. Zhur. ob. khim. 33 no.1:320-321 '63.

(NIRA 16:1)

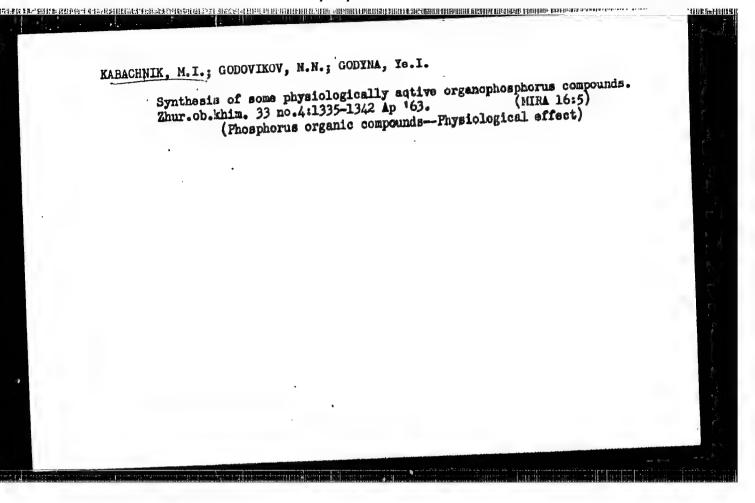
(Phosphinous amide) (Anhydrides)

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.

Conjugation phenomenon in the systems with a tetrahedric atom. Part 2: Vinylphosphinic acids. Zhur.ob.khim. 33 no.2: 382-388 F '63.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphinic acid) (Conjugation (Chemistry)) (Vinyl compounds)



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

KABACHNIK, M.I.; GODOVIKOV, N.N.

Synthesis of some physiologically active organophosphorus compounds. Part 2: Preparation of 0-ethyl-S-[β-alkylmercaptoethyl] methylthiophosphinate, 0-ethyl-S-[β-phenylmercaptoethyl] methylthiophosphinate and their methylsulfomethylates.

33 no.6:1941-1945 Je '63. (MIRA 16:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorus organic compounds)

MASTRYUKOVA, T.A.; SHEYNKER, Yu.N.; KUZNETSOVA I.K.; PERESLENI, Ye.M.; SAKHAROVA, T.B.; KABACHNIK, M.I.

Hammett equation in the theory of tautomeric equilibrium. Part 2: Tautomerism of A -arylsulfaminopyridines.Potentiapatria: tudy. Zhur.obskhim. 33 no.10:3328-3335 0 163.

Hammett equation in the theory of tautomeric equilibrium.

Part 2: Tautomerism of A -arylsulfaminopyridines. Spectrophotometric study.

3336-3342 (MIRA 16:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSE i Institut khimii prirodnykh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

GODOVIKOV, N.N.; GODYNA, Ye.I.; KABACHNIK, M.I., akademik; MIKHEL'SON, M.Ye.; ROZENGART, Ye.V.; YAKOVLEV, V.A.

Anticholinesterase properties of some O-ethyl-S-alkylmethyl thiophosphinates. Dokl. AN SSSR 151 no.5:1104-1107 Ag '63. (MIRA 16:9)

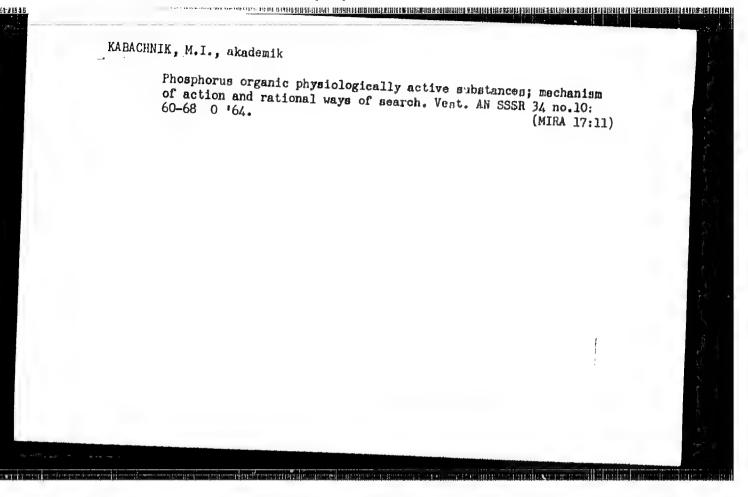
1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR.

(Cholinesterases) (Phosphinic acid)

ROMANOVSKIY, Yu.M.; MASTRYUKOVA, T.A.; BODROV, V.P.; POPOV, Ye.H.; KABACHNIK, M.I.

Use of high-speed computers in the analysis of mixtures of organophosphorus compounds by their infrared spectra. Izv. AN SSSR. Ser.khim. no.3:569-572 Mr '64. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova, Institut elementoorganicheskikh soyedineniy AN SSSR i Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.



EPF(c)/EPN/epA(s)-2/ew(j)/ENT(s)/T Pc-4/pr-4/ps-4/pt-10 JAJ/Ru/Maj/RX

ACCESSION NR: AT5002111 S/0000/64/000/000/0063/6066

AUTHOR: Korshak, V.V.; Frunce, T.M.; Kursshew, Y.V.; Medved!, T.Ya.;

Polikarpoy, Tu. M.; Hu, Ch'ing mei; Kabachnik, M.J.

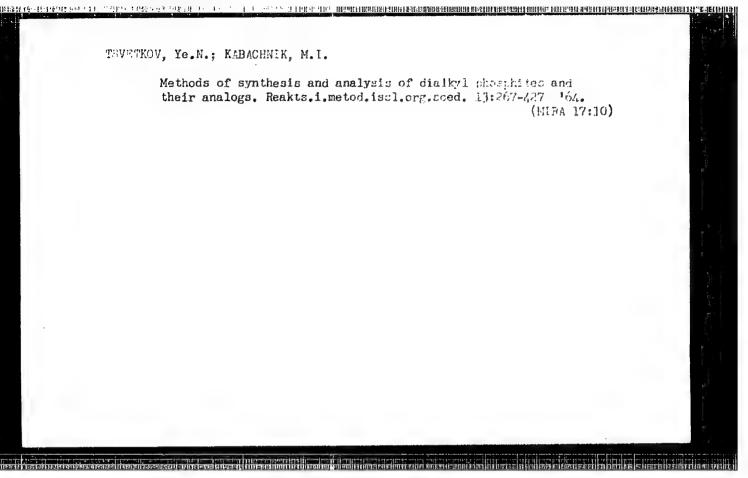
TITLE: Synthesis of certain phosphorus-containing monomers

SOURCE: AN ESSR. Institut neftechimichaekezo sintega, Sintes i svoysiva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 63-66

TOPIC TAGS: polyamide, aromatic dicarboxylic acid, aromatic diamine, organophosphorus compound, polycondenastico, aliphatig diamine, phosphine derivative

ABSTRACT: The authors synthesized a series of phosphorus-containing bifunctional monomaries of the type of aromatic dicarboxylic acids or amines, e.g. the exides of phnyl- and methyld; (m.-aminephenyl)—phosphine. The monomers were then utilized for the synthesis of polyamide-by the methods of equilibrium and inter-phase polycondenastico. A large number of folyamides were obtained from the phosphorus-containing dicarboxylic acids with aliphatic and aromatic diamines as well as from the phosphorus-containing diamines with earth and carboxylic acids. All the polyamides were capable to polymars of the type of polybexzemethylamodismines writes, the polyamides were comparable to polymars of the type of polybexzemethylamodismines.

	. 22658 -65						ř
	L 22658-65 ACCESSION NR:	AT5002111	he polyamides	containing phospi	orus showed g	ood flame	li Ess In
1	resistance. Sin a	ylensebscamide. T ddition, they can be 3 tables and 5 form	s used for the s wise.	ame applications	MR OXCURATA BA		
	ASSOCIATION:						*
1.6 19 23 11	SUBMITTED: 3	Jul64	ENOL: 00	105,000	DE CODE: OC,		6
	NO REF SOVI	08	OTHER: 008				
8							
							۲
	Cord 2/2		A Principle of the Park		Menteral Comment	S. A. D. S. M. D. S. W. B. S. M. B. S. M. B. S. M. B. S. W. B. W. B. S. W. B. W. B. S. W. B. W. B. S. W. B. W. B. S. W. B. W. B. S. W. B. W. B. S. W. B. S. W. B. S. W. B.	
	,						



MASTRYUKOVA, T.A.; SAKHAROVA, T.B.; KABACHNIK, M.I.

Reactivity of thio acid salts of phosphorus. Part 4: Reaction of ammonium diethyl phosphate with dichlotoethene. Zhur.ob.khim. 34 no.1: 94-98 Ja '64. (MIRA 17:3)

有一个人,这个人,我们是一个人,

KABACHNIK, M.I.; VOYEVODSKIY, V.V.; MASTRYUKOVA, T.A.; SOLODNIKOV, S.P.; MELENTYYEVA, T.A.

Conjugation in the systems involving a tetrahedral atom. Electron paramagnetic resonance spectra of some organophosphorus compounds. Zhur. ob. khim. 34 no.10:3234-3240 0 64.

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut khimicheskoy fiziki AN SSSR.

BRESTKIN, A.P.; GODOVIKOV, N.N.; GODYNA, Ye.I.; KABACHNIK, M.I., akademik; MIKHEL'SON, M.Ya.; ROZENGART, Ye.V.; YAKOVILV, V.A.

Anticholinesterase properties of o-ethyl-S-alkylmethylthiophosphinates. Inhibition kinetics and structure of the active surface of cholinesterases. Dokl. AN SSSR 158 no.4:880-883 0 164.

(MIRA 17:11)

gen and the control of the control o

1. Institut evolyutsionnoy fiziologii im. I.M. Sechenova AN SSSR

i Institut elementoorganicheskikh soyedineniy AN SSSR.

ARKHIPOVA, O.G.; KOCHETKOVA, T.A.; RUDOMINO, M.V.; MEDVED¹, T.Ya.; KABACHNIK, M.I., akademik

Effect of aminoalkylphosphinic acids on experimental beryllium intoxication. Dokl. AN SSSR 158 no.5:1235-1237 0 64.

(MIRA 17:10)

the state of the state of the continuous and the control of the state of the control of the state of the stat

1. Institut gigiyeny truda i professionalinykh zabolevaniy AMN SSSR i Institut elementoorganicheskikh soyedineniy AN SSSR.

OREKHOV, Aleksandr Pavlovich (1881-1939), akademik; KABACHNIK,
M.I., akademik, otv. red.; RUDENKO, V.A., red.

waita i sanasana madina

[Intramolecular rearrangements; studies in the field of theoretical organic chemistry] Vmutrimolekuliarnye peregruppirovki; issledovaniia v oblasti teoreticheskoi organicheskoi khimii. Moskva, Nauka, 1965. 310 p.

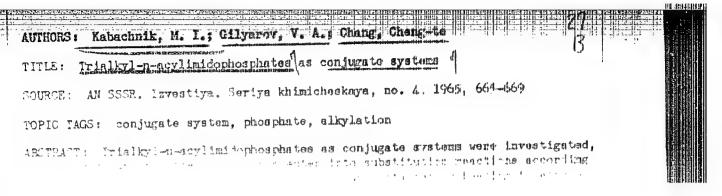
(MIRA 18:9)

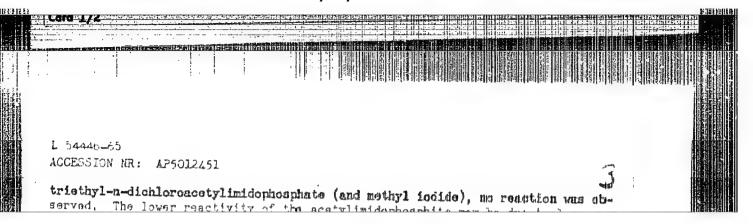
OREKHCV, Aleksamir Favlovich, akademik, [doccanod]; KLMCHMIR,
M.I., abademik, otv. red.; EVESV.LOV., 2.7., prof., red.;
GALPEEN, G.D., prof., red.; SINUK.VA, H.A., red.

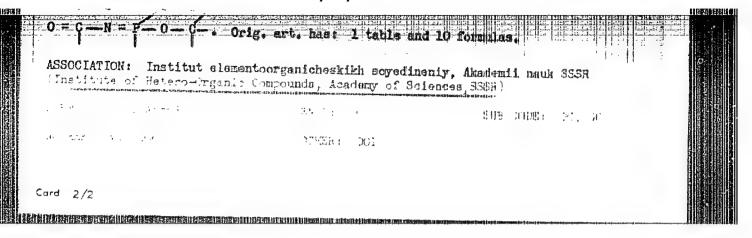
[Chemistry of the alkaloids of plants of the H.S., S.B.]

Khimita alkaloidov rastemii SSSR. Moskva, Hauka, 1905.

391 p. (MIE. 18:11)







1. 20707-66 ENT(m)/TUP(3) R	01/CD=2
ACC NR: AP6012080	SOURCE CODE: UR/0062/65/000/005/0895/0898
AUTHOR: Senyavina, L. B.; She	ynker, Yu. N.; Zheltova, V. N.; Dombrovskiy, A. V.; I.; Mastryukova, T. A.; Melent'yeva, T. A.
Shevenuk, M. 1.; Radachitzky	AN SSSR (Institut khimii
org: Institute of the themist	المالية
TITIE: Infrared spectra of ar	coylmethylenetriphenylphosphorance and their saits
SOURCE: AN SSSR. Izvestiya.	Seriya khimicheskaya, no. 5, 1965, 895-898
TOPIC TAGS: IR spectrum, orga	nnic salt, organic phosphorous compound, electron donor,
i evelic group	9
apectra of aroylmethylenetriphe bonded to a phenyl ring) and the from the standpoint of electron phosphorus atom and the aromatic of substituents in the aromatic an aromatic group to the carbon and intensity of the valence vi	ensities of the carbonyl absorption in the infrared enylphosphoranes (in which the carbonyl group is neir salts were measured. The data were considered a donor and electron acceptor properties of the ic rings of the aroyl group, as well as the influence or ring on the absorption intensity. The addition of myl in phosphoranes led to a decrease in the frequency ibration of the carbonyl group in comparison with the tives, evidently as a result of the functioning of the carbonyl group for
the aromatic ring as an electrons from the strong elec-	on acceptor, competing with the carbonyl group for tron-donor phosphorus atom. The frequency and in-
Cord 1/2	A STATE OF THE PARTY OF THE PAR

0

tensity of the C=O vibration are also determined by the configuration of the molecule, determined in turn by the size of the substituent at the carbonyl group. In phosphorane salts, the tetracovalent positive phosphorus plays the role of an electron acceptor, resulting in a sharp drop in the intensity of the C=O band in comparison with phosphoranes. The absorption bands in the region of 1317-1390 cm⁻¹ for arylmethylenetriphenylphosphoranes and 1389-1412 cm⁻¹ for aroylmethyltriphenylphosphoranes were tentatively assigned to the vibration of the P=C band. Orig. art.

SUB CODE: 07 / SUEM DATE: 20Jul64 / ORIG REF: 005 / OTH REF: 004

Card 2/2/12/2

. ACC NR: AP6012080

has: 2 tables. [JPRS]

TO THE REPORT OF A DESIGNATION OF THE PROPERTY OF THE PROPERTY

KABACHNIK, M.I.; GILYAROV, V.A.; CHZHAN CHZHEN-DE

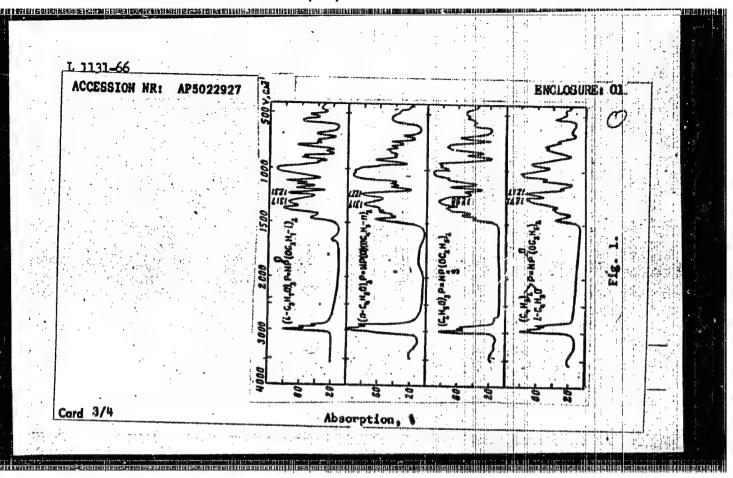
Trialkyl-N-acylimidophosphates as conjugated systems, Izv. AN SSSR..Ser. khim. no.41665-669 165. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

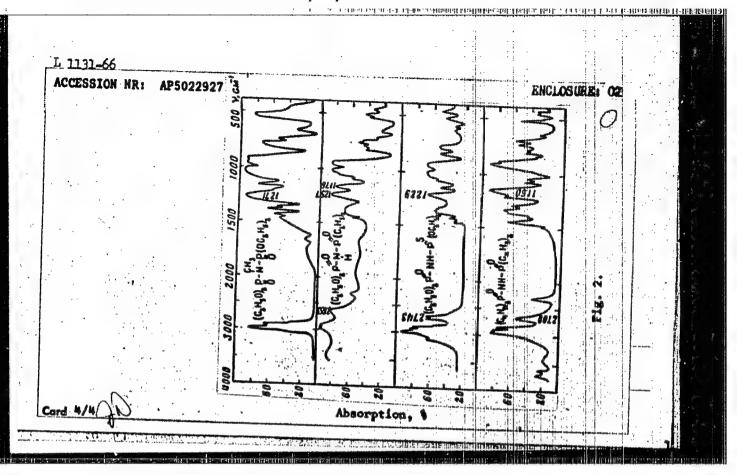
					:	17 72 12
1131-66 EWT(m)/EPF(c	/EWP(j) ne	t				
ACCESSION NR: AP5022927		1	UR/0062/0	5/000/008/1	331/1336	
•	ما الم	والخابلا	543.422	661,718.1	34	
ACCESSION NR: AP5022927 AUTHOR: Matrosov, Ye. I	; Gilyarov, V.	Λ.; Kabachı	nik, M. I.	KIN	(3)	
NITLE: About amidoimido	-tautopoulou of	Markettiii waa	dieteritieten zut pfas	7,441	(3)	
SOURCE: AN SSSR. Izvest	lya. Seriya khim	icheskaya,	no. 8, 196	5, 1331-133	5	
TOPIC TAGS: amide, imid	s. tautomerism.	N-phosphory	(Lamidophos	mhate, phon	hine	
IR spectroscopy						
ABSTRACT: The smido-imic	lo tautomenism o	famides of	F polity as			
			acaus of	buncasaranc	phosphorus	
		Va .				
	A O B NHR I					
res importionted by TD	n	igner medanien, andrew rydrie				[]
vas investigated by IR spinidophosphates and phosphates	bines are shown	in fig. 1	of the Enc	Linguisma . The	TD mb-	The second
COMPTION Spectra of N-bho	schowlamidochos	anhataa and	سحة والمضموات	a cama cabaca	the street of he	
of the Enclosure. For the	ia comporting 10 (question, v	ubrational	fraquencies	corre-	
#W #/7	-					
	e de la casa de la constitue des a p	process of the contract of		4		++ ++++

L 1131-66					
ACCESSION NR: AP5022927	The property of the second second second second second	a de abranche mante de mante () e de 1 mare en 1			
				3	Pag
sponding to P = N group occur i to P = 0 group occur in the 121	in the 1296-1338	cm 1 magina and	***		
to P = 0 group occur in the 121 amide type structure of the Ner	10-1253 cm ⁻¹ regi	on. The IR spec	those corresp	onding	
phoryl group may form a strong	produces participa	ospnares and pho	sphines. The	phos-	
Strong shift of the hand assess	maragen pond (0	tue un-groups a	nd. thus. can	ite a	
er than 3100 cm ⁻¹ . As a result tion in N-phosphorylamidophosph	, the absorption	band characters	Have bumbers	short-	
tion in N-phosphorylamidophosph	nates and phosphi	nes,	O TOP HATE	ATDL/f-	153
			he !		
· ·	•	OH-	6		10
		Sp.			
		N II			
		SPC			10
occurs at 2700 cm . Orig. art	han. 0.00	7			
ASSOCIATION: Institut elemento	· Des: 2 rigures Organicheskibh se	, 2 tables,			M
	Compounds Acade	By of Reignage	nii hauk SSSR		
UBHITTED: 11Jan65 O REF SOV: 005	mirous VZ.		WIF CODE: GC.	oc	
	OTHER: 002				
ard 2/4					
J 113		Manual III			*

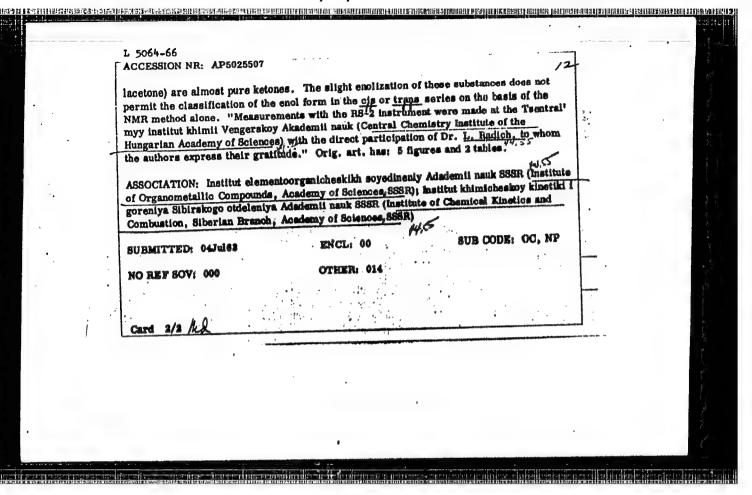
"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1



"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1



ı	L 5064-66 EWT(m)/EPF)c)/EWF(j)/T/ETC(m) RM/DS/WW	the state of the s
	ACCESSION NR: AP5025507 UR/0062/65/000/009/1556/1564 6/	
	1 41 ²⁵ 111 ²⁵⁷ 112 ²⁵ 12 ²⁵ 12 ²	
	AUTHOR: Molin, Yu. N.; Ioffe, S. T.; Zayev, Ye. Ye.; Solov'yeva, Ye. K.; Kugucheva, Ye. Ye.; Yoyevodskiy, V. V.; Kabachnik, M. I.	
. `	1712	
	TITLE: Nuclear magnetic resonance study of the keto-enol equilibrium of 3-alkylacety-	
		
	SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1556-1564	
•	TOPIC TAGS: NMR spectroscopy, ketone, NMR	\$
		¥.
	ABSTRACT: NMR spectra of the following compounds were studied: 3-methyl-, 3-ethyl-, 3-n-propyl-, 3-isobutyl-, 3-isopropyl-, and 3-sec-butylacetylacetone, and also 2-isopro-	-
	poxy-2-penten-4-one. The spectra were taken with a JNM-3 instrument (40 Mc) and some	
	were also recorded with an RS-2 spectrometer (60 Mo) at ~ 25 C, and the content of enol forms was determined. Alkylacetylacetones with unbranched substituents were shown to	
	contain cis-enol forms at equilibrium with the ketone; this serves with chemical data.	
	Compounds with branched substituents (3-isopropylacetylacetone and 3-sec-butylacety- Card 1/2	\$
	. 09010207	
		13
	·	1



MEDVED', T.Ya.; POLIKARPOV; YUDINA, K.S.; KABACHNIK, M.I.

Synthesis of G-ketophosphine oxides. Izv. AN SSSR. Ser. khim.
no.9:1707-1708 '65. (MIRA 18:9)

1. Institut elementoorganioheskikh soyedineniy AN SSSR.

L 7898-66 EWT(m)/EPF(c)/EWP(j) RM UR/0286/65/900/016/0034/003 SOURCE CODE: ACC NR: AP5024972 Borisov, G. I.; Tavetkov, Ye. N.; Lobanov AUTHORS: Kabachnik. Malevannaya, R. A. ORG: none TITLE: Method for obtaining methyl-di-(aryl-oxymethyl)-, or methyl-di-(β-alkoxyethoxymethyl)-phosphine oxides. Class 12, No. 173765 y SOURCE: Byulleten' izobreteniy i tovarnyklı znakov, no. 16, 1965, 34 TOPIC TAGS: alkoxy phosphine oxide, phosphorus compound, organic phosphine, ABSTRACT: This Author Certificate presents a method for obtaining oxides of either methyl-di-(aryl-oxymethyl) or methyl-di-(3-alkoxyethoxymethyl)-phosphines. The oxide of methyl-di-(chloromethyl)-phosphine is reacted with sedium phomolate or with sodium alkoxyethylate in an inert solvent such as toluene, SUB CODE: 07/ SUBM DATE: 20Jul64 nw 547.419.1.07 Card 1/1

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.; DOMBROVSKIY, A.V.; SHEVGHUK, M.I.

Conjugation in the systems with a tetrahedral phosphorus atom.

Part 1: Substituted tenzoyltriphenylphosphinomethylenes. Teoret.

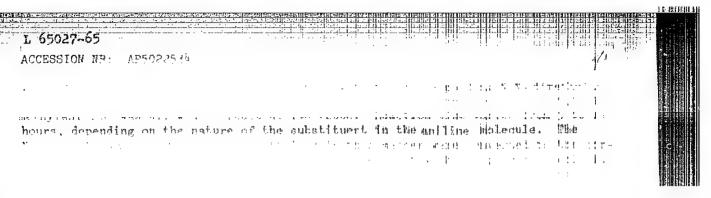
1 eksper. khim. 1 no.2:265-269 Mr-Ap '65. (MIRA 18:7)

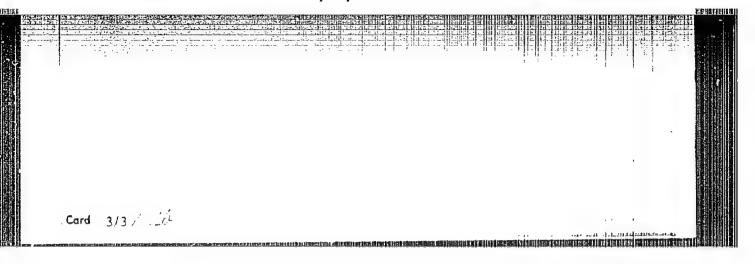
1. Institut elementoorganicheskikh soyedineniy AN SESR, Moskva i Chenovitskiy gosudarstvennyy universitet.

INTERNITY OF THE PROPERTY OF T SOURCE CODE: UR/0379/65/001/006/0729/0733 EWT(m)/EWP(1) L 39000-66 ACC NR: AP6029721 AUTHOR: Tsvetkov, Ye. N.; Lobanov, D. I.; Kabachnik, M. I. ORG: Institute of Organoelemental Compounds, AN SSSR, Moscow (Institut elementoorganicheskikh soyedineniy AN SSSR) TITLE: Electron effect of the diphenylphosphino-group SOURCE: Teoreticheskaya i ekeperimental naya khimiya, v. 1, no. 6, 1965, 729-733 TOPIC TAGS: diphenyl compound, secondary amine, vinyl compound, molecular structure, phosphorus, chemical synthesis, dissociation constant, ionization, electron donor ABSTRACT: Studies of the direction in which secondary amines become associated with the vinyl compounds of trivalent phosphorus showed that vinylphosphines vinylphosphinites are not analogous to the vinyl compounds of elements having unshared pairs of electrons. This points to the electrophilic enaracter of the groupings containing a trivalent phosphorus atom. In this connection, it was of interest to investigate the electron influence of the trivalent phosphorus atom linked to an aromatic ring, and to compare it with the electron influence of nitrogen in similarly structured compounds. The authors investigated the effect of the diphenylphosphino-group and compared it with the effect of the diphenylamino-group and analogous substitutes containing pentavalont phosphorus. For this purpose, the corresponding n-substituted benzoic Card 1/2

sjelos spora a sajmes i Sasta si rjelos i parajisa giji pakija njenje sporaji njenje stana i sa sa sa

ACC NR. AP6029721 acids were synthesized and their dissociation and ionization constants. It was found that the diphenylphosphino-group is an electron-acceptor comparable in its electron-denor effect to the chlorine or browne. The beta-orientation in the association of secondary amines with vinyl comparable the phosphorus is apparently conditioned by the electrophilic nather groupings containing an atom of trivalent phosphorus. Orig. art. I table. [JPRS: 36,455]	hus, the pounds of ture of
SUB CODE: 06 / SUBM DATE: 24Aug65 / ORIG REF: 001 / OTH REF:	015
Card 2/2 \ S	





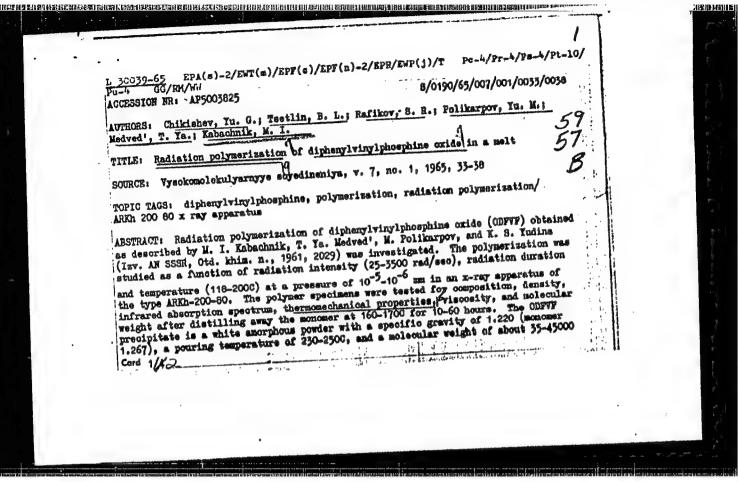
KABACHNIK, M.I.; BALUYEVA, G.A.; MEDVED', T.Ya.; TSVETKOV, Ya.N.; CHZHAN ZHUN-YUY [Chang Jung-ju]

Kinetics and mechanism of bromination of vinylphosphinic acid derivatives.

Kin. i kat. 6 no.2:212-220 Mr-Ap '65. (MIRA 18:7)

1. Institut elementoorganicheekikh soyedineniy AN SSSR.

L 33128-66 EWT(m)/EWP(1) RM UR/0192/65/006/005/0691/0698 SOURCE CODE: ACC NRI AP6024164 AUTHOR: Kabachnik, K. I.; Mastryukova, T. A.; Matrosov, Ye. I.; Fisher, B. ORG: Institute of Organoelemental Compounds, AN SSSR) Institut elementoorganicheskikh soyedineniy AN SSSR) TITIE: Infrared spectra and structure of phosphorusmonothicacid salts Zhurnal strukturnoy khimii, v. 6, no. 5, 1965, 691-698 SOURCE: TOPIC TAGS: IR spectrum, phosphoric acid, organic phosphorus compound The infrared spectra of salts of diethylthiophosphoric ABSTRACT: and dimethylthiophosphoric acids were studied. It was shown that the anion of ammoniacal and alkali salts of these acids have a mesomeric structure with the distribution of ionic charge between the atoms of the triad. Salts of nonalkali metals of diethylthicphosphoric acid evidently have an intracomplex structure. Depending on the nature of the metal, the distribution of the bonds in the phosphorus moiety can approximate the thiolio (Cu, Ag, Zn, and Hg salts) or the thionic (Ca, Pb, and Mn salts) type. Salts of heavy metals of dimethylthiophosphinic acid also evidently are intracomplex in character, but their thionic character is more strongly pronounced. T. K. Nazarova and H. I. Volkova took part in the experimental phase of the work. The authors thank G. B. Shaltuper for his valuable advice during discussion of the work. Orig. art. has: 3 figures and 13 formulas. [JPRS] SUB CODE: 07 / SUBM DATE: 12Feb65 / ORIG REF: 017 / OTH REF: 015 Card 1/1BK



"APPROVED FOR RELEASE: 08/10/2001 C

CIA-RDP86-00513R000619720014-1

L 30039-65			2	
ACCESSION NR: AP			The thermo-	
for the reprecipi	tated polymer and 16-24000 for a seion curves for the polymer are	e shown in Fig. 1 on the	e Englosure,	
and the initared	The man found that the yield of	penged linearly arms	minutes for	
different alopes	for different radiation intensi	/sec). The polymerina	tion rate was	. 13
800 rad/seo and	modiation intensity (0-4 by wei	ght %/min as rantau	re found to be	
from 0-4000 x80/	ediation intensity and were 20%	and 16000 respectively	ation rate as	
radiation of U.	merature is shown in Fig. 5 on	the Englosure. Mount	etic relations	
W LIMITATION OF AG				
for the polymeri	sation process differ from all cased on either the radical or i	other described radials on mechanisms. Orig. a.	4. has 7	
for the polymerition processes b	zation process differ from all a seed on either the radical or institut elementoorganicheskikh s	other described radials on mechanisms. Orig. a.	4. has 7	
for the polymerition processes b figures. ASSOCIATION: In Organic Compound	ration process differ from all sased on either the radical or institut elementoorganicheskikh sis, AE SSSR)	other described radials on mechanisms. Orig. a.	4. has 7	
van significant for the polymerition processes b figures. ASSOCIATION: In Organic Compound SUBMITTED: 26Fe	zation process differ from all sation process differ from all sased on either the radical or institut elementoorganicheskikh sis, AH SSSR)	other described realistical mechanisms. Orig. at oyedinemiy in BEER (Yn	et. has: 7	
for the polymerition processes beingures. ASSOCIATION: In Organic Compound SUBMITTED: 26Fe	zation process differ from all sation process differ from all sased on either the radical or institut elementoorganicheskikh sis, AH SSSR)	other described realistical mechanisms. Orig. at oyedinemiy in BEER (Yn	et. has: 7	
van significant for the polymeri tion processes b figures. ASSOCIATION: In Organic Compound SUBMITTED: 26Fe EO REF SOV: 009	zation process differ from all sation process differ from all sased on either the radical or institut elementoorganicheskikh sis, AH SSSR)	other described realistical mechanisms. Orig. at oyedinemiy in BEER (Yn	et. has: 7	
van significant for the polymeri tion processes b figures. ASSOCIATION: In Organic Compound SUBMITTED: 26Fe EO REF SOV: 009	zation process differ from all sation process differ from all sased on either the radical or institut elementoorganicheskikh sis, AH SSSR)	other described realistical mechanisms. Orig. at oyedinemiy in BEER (Yn	et. has: 7	

MASTRYUKOVA, T.A.; MELINT'YEVA, T.A., KABACHNIK, M.I.

Reactivity of phosphorus thio acid salts. Part 6: Alkylation and

phosphorylation reactions of potassium diphenylthiophosphinate. Zhur. ob. khim. 35 no.7:1197-1201 J1 '65. (MIRA 18:8)

tall i (all selflated tale de selfat selfethold se selfatholo de de firet er an etal a ver le anne saccend celle 36科別第

ACC NR	AP6019323 SOURCE CODE: UEI/0079/65/035/008/1476/	/1461
AUTHOR: K	Kabachnik, H. I.; Gilyarov, V. A.; Kudryavtsev, R. V.	37
ORG: Inst	titute of Organoelemental Compounds, AN SSSR (Institut elementoorganiche	pakalda
soyedineni	LY AN SSSR)	
TITLE: St	tudy of conjugation in systems with a tetrahedral phosphorus atom.	
Phosphamid	de system 27	
SOURCE: 2	2hurnal obshehey khimii, v. 35. no. 8, 1965, 1475-1481	
TOPIC TAGS	S: tautomerism, organic phosphorus compound, methylation	
ABSTRACT:	The reactions of 0,0-diethyl-N, N'-diphenylphosphamidine	
and of O	o O-diethyl-N-phenyl-N'-m-tolylphosphamidine with obg were	
and of O	0,0-diethyl-N-phenyl-N-m-tolylphosphamidine with 002 were	
and of O investig phosphat	gated. The products were 0,0-diethyl-N-phenylamidothio- te and aryl isothiocyanates. Formation in the second case	
and of 0 investig phosphat of a mix	gated. The products were 0,0-diethyl-N-phenylamidothio- te and aryl isothiocyanates. Formation in the second case sture of phenyl isothiocyanate and m-tolyl isothiocyanate	
and of 0 investig phosphat of a mix confirme methylat	gated. The products were 0,0-diethyl-N-phenylamidothio- te and aryl isothiocyanates. Formation in the second case xture of phenyl isothiocyanate and m-tolyl isothiocyanate ed the existence of phosphamidine tautomerism. In the tion of Na derivatives of diarylphosphamidines with MeI,	
and of 0 investig phosphat of a mix confirme methylat a mixtur	gated. The products were 0,0-diethyl-N-phenylamidothio- te and aryl isothiocyanates. Formation in the second case xture of phenyl isothiocyanate and m-tolyl isothiocyanate ed the existence of phosphamidine tautomerism. In the tion of Na derivatives of diarylphosphamidines with MeI, re of two methylation products formed when two different	
and of 0 investig phosphat of a mix confirme methylat a mixtur aryl gro	gated. The products were 0,0-diethyl-N-phenylamidothio- te and aryl isothiocyanates. Formation in the second case xture of phenyl isothiocyanate and m-tolyl isothiocyanate ed the existence of phosphamidine tautomerism. In the	

	and th	- 4 7		O	i il i.i.i.i		
nsequent on Origo	m la 4 mla	wahilites a	f hande in	city of the the -N = I to partic!	P Det IV 111	group and :!	
CODE: 07	7, 06 /	SUEM DATE:	05Jun64 /	ORIG REF:	005 / 01	H REF: 005	
				Eding Line			
						in the contract of the contrac	nsequently a capacity of phosphorus to participate in conjuga- on. Orig. art. has: 12 formulas. LIPRS CODE: 07, 06 / SUBM DATE: 05Jun64 / ORIG REF: 005 / OTH REF: 005

ACC NRI 126016689	SOURCE CODE: UR/0079/65/035/009/1574/157	7
AUTHOR: Kabachnik, M. I.; Mastryu	ikova, T. A.; Shipov, A. B.	
ORG: none		
TITIE: Method of producing oxides	of nonsymmetrical tertising phosphines	
SOURCE: Zhurnal obshchey khimii,	The state of the s	
ABSTRACT: The reaction of dialkyl followed by treatment of the react and found to be a general preparat metrical tertiary phosphines. In are formed in yields close to quan pure, giving only one spot in this	l phosphites with organomagnesium compounds, tion mixture with alkyl halides, was studied tive method for producing oxides of nonsymmost cases the tertiary phosphire oxides attitutive. The products are sufficiently nelayer chromatography both on aluminum sare cited. Orig. art. has: 1 table.	
	164 / ORIG REF: Oll / OTH REF: 014	